



1/7

SEQUENCE LISTING

<110> Weinburg, Aaron

<120> COMPOSITIONS AND METHODS FOR TREATING
HIV INFECTIONS

<130> CWRU-P01-019

<140> 10/737,288

<141> 2003-12-15

<150> 60/433,099

<151> 2002-12-13

<160> 21

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 41

<212> PRT

<213> Homo sapiens

<400> 1

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Pro	Gly	Thr	Lys	Cys	Cys	Lys	Lys	Pro							
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<211> 64

<212> PRT

<213> Homo sapiens

<400> 2

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			20					25					30		
Lys	Ser	Gly	Ala	Ile	Cys	His	Pro	Val	Phe	Cys	Pro	Arg	Arg	Tyr	Lys
		35					40					45			
Gln	Ile	Gly	Thr	Cys	Gly	Leu	Pro	Gly	Thr	Lys	Cys	Cys	Lys	Lys	Pro
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<210> 3

<211> 121

<212> PRT

<213> Fusobacterium nucleatum

<400> 3

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			20					25					30		
Thr	Glu	Thr	Thr	Glu	Ala	Ala	Ala	Glu	Ala	Lys	Thr	Phe	Ser	Leu	Lys
		35					40					45			
Thr	Glu	Asp	Gly	Lys	Glu	Phe	Thr	Leu	Val	Val	Ala	Ala	Asp	Gly	Ser
	50					55					60				
Thr	Ala	Thr	Leu	Thr	Asp	Ala	Glu	Gly	Lys	Ala	Thr	Glu	Leu	Lys	Asn
65					70					75					80
Ala	Glu	Thr	Ala	Ser	Gly	Glu	Arg	Tyr	Ala	Asp	Glu	Ala	Gly	Asn	Glu
			85						90					95	
Val	Ala	Met	Lys	Gly	Ala	Glu	Gly	Ile	Leu	Thr	Leu	Gly	Asp	Leu	Lys
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<210> 4
<211> 2045
<212> DNA
<213> Homo sapiens
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gttctctgtc	tctctcatt	ccccccacc	tatctctccc	tcacccctct	ctctccttcc	240
tctctctgtg	tgtccccctc	atccccctt	cctgcttctc	tctcttcttc	ccctctcttc	300
ttttttctgt	ctttcttttt	cctctctccc	tagagcatgt	ctttcttctt	tctctcttcc	360
tttcttctac	ccacactttt	agactgaatg	ccctatttaa	ttgaacaaag	cattgcttcc	420
ttcaatagaa	aaggagtttg	agaaccaat	ggacacctca	ctcgttcttc	taagccaata	480
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tgcaacctag	agaattccag	ataatcttaa	ggcccagcct	atactgtgag	aactactgca	720
gcaagacact	ctgcctccag	gacttttctg	atcagaggcc	ctgagaacag	tccttgccac	780
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atgcctaacc	ttcattttct	ccttgatatt	atgaaaataa	aataaaaaacc	atgaaaggat	900
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cctaaaaaaa	ttaatcta	agatatcatc	ttgtgaaatc	ctcattttac	caatcttatt	1020
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ttttccaac	atgagttttg	agttcttaca	cgtgttttgc	tctttttgtg	tgttttttcc	1800
ctgttaggtg	tttttggtgg	tataggcgat	cctgttaacct	gccttaagag	tggagccata	1860
tgtcatccag	tcttttgccc	tagaagggtat	aaacaaattg	gcacctgtgg	tctcccttgg	1920
acaaaatgct	gcaaaaagcc	atgaggaggc	caagaagctg	ctgtggctga	tgcggattca	1980
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agata						2045

<210> 5

<211> 319
 <212> DNA
 <213> Homo sapiens

<400> 5
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 tattcctgat gcctcttcca ggtgtttttg gtggtatagg cgatcctgtt acctgcctta 120
 agagtggagc catatgtcat ccagtctttt gccctagaag gtataaacia attggcacct 180
 gtggtctccc tggaacaaaa tgctgcaaaa agccatgagg aggccaagaa gctgctgtgg 240
 ctgatgcgga ttcagaaagg gctccctcat cagagacgtg cgacatgtaa accaaattaa 300
 actatggtgt ccaaagata 319

<210> 6
 <211> 195
 <212> DNA
 <213> Homo sapiens

<400> 6
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 gtttttggtg gtataggcga tcctgttacc tgccttaaga gtggagccat atgtcatcca 120
 gtcttttgcc ctagaaggta taaacaaatt ggcacctgtg gtctccctgg aacaaaatgc 180
 tgcaaaaagc catga 195

<210> 7
 <211> 126
 <212> DNA
 <213> Homo sapiens

<400> 7
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 cctagaagggt ataaacaaat tggcacctgt ggtctccctg gaacaaaatg ctgcaaaaag 120
 ccatga 126

<210> 8
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 8
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 gaagctaaaa cattctcact taaaactgaa gatggaaaag aattcacatt agtagttgct 180
 gctgatggaa gtactgcaac tttaactgat gcagaaggaa aagcaactga attaaaaaat 240
 gctgaaactg catctggaga aagatatgca gatgaagctg gaaacgaagt tgctatgaaa 300
 ggtgcagaag gaatcttaac tttaggagac cttaaagaag taccagtaac tgttgaagct 360
 aaatag 366

<210> 9
 <211> 129
 <212> PRT
 <213> Fusobacterium nucleatum

<400> 9
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 1 5 10 15
 Ala Asn Ile Asp Thr Gly Val Asp Glu Ser Lys Glu Ala Gln Ile Ser
 20 25 30
 Arg Leu Leu Lys Glu Ala Asp Lys Lys Lys Glu Lys Thr Val Glu Val
 35 40 45

Glu Lys Lys Leu Val Thr Asp Asn Gly Glu Glu Val Ile Glu Glu Glu
 50 55 60
 Ala Thr Val Gln Asn Lys Lys Ser His Lys Gly Met Thr Arg Gly Glu
 65 70 75 80
 Ile Met Glu Tyr Glu Met Thr Arg Val Ser Asp Glu Met Asn Ala Leu
 85 90 95
 Gln Ala Asp Val Gln Gln Tyr Gln Glu Lys Lys Ala Gln Leu Lys Ala
 100 105 110
 Tyr Gln Glu Lys Leu Gln Lys Leu Glu Glu Leu Asn Asn Ala Gly Ile
 115 120 125
 Lys

<210> 10
 <211> 390
 <212> DNA
 <213> Fusobacterium nucleatum

<400> 10
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 acaggtgtag atgaaagtaa agaagctcaa atatcaagac ttttaaaaga agctgataag 120
 aaaaaagaaa aaacagtaga agtagaaaag aaacttgtaa ctgataatgg agaggaagtt 180
 atagaggaag aagctaccgt tcaaaacaaa aaatcacata aaggaatgac aagaggggaa 240
 ataatggaat atgaaatgac aagagtttca gatgaaatga atgccctaca agcggatgta 300
 caacaatatc aagaaaagaa agcacaacta aaagcatacc aagaaaaatt acaaaaatta 360
 gaagaattaa ataatgcagg aataaaataa 390

<210> 11
 <211> 123
 <212> PRT
 <213> Fusobacterium nucleatum

<400> 11
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 20 25 30
 Tyr Glu Asn Leu Val Lys Glu Glu Ala Arg Phe Gln Lys Glu Lys
 35 40 45
 Glu Leu Ser Glu Arg Ala Ala Gln Asn Val Lys Leu Ala Glu Leu
 50 55 60
 Lys Ala Ser Ile Glu Glu Lys Leu Leu Ala Ala Pro Glu Glu Arg Lys
 65 70 75 80
 Thr Lys Phe Phe Lys Asp Thr Phe Asp Gly Leu Val Lys Asp Tyr Ser
 85 90 95
 Lys Tyr Leu Ser Gln Ile Asn Glu Lys Ile Ala Glu Asn Thr Glu Ile
 100 105 110
 Val Ser Asn Phe Glu Lys Ile Gln Lys Ile Arg
 115 120

<210> 12
 <211> 372
 <212> DNA
 <213> Fusobacterium nucleatum

<400> 12
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gagattat ttt cagagttaaa aggacttaat gctgagtatg aaaatttagt aaaagaagaa 120
 gaagctagat ttcaaaaaga aaaagaactt tctgaaagag cagcagctca aaatgttaaa 180
 ttggctgaat taaaagcaag cattgaagaa aaattgtagt cagctccaga agaaagaaaa 240
 acaaaat ttt ttaaagatac ttttgatggg ttagtgaaag attattcaaa atatttaagt 300
 caaataaatg aaaaaatagc tgaaaatact gaaatagtaa gtaattttga aaaaattcaa 360
 aaaataagat ag 372

<210> 13
 <211> 129
 <212> PRT
 <213> *Fusobacterium nucleatum*

<400> 13
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 1 5 10 15
 Phe Ala Ala Asn Asp Ala Ala Ser Leu Val Gly Glu Leu Gln Ala Leu
 20 25 30
 Asp Ala Glu Tyr Gln Asn Leu Ala Asn Gln Glu Glu Ala Arg Phe Asn
 35 40 45
 Glu Glu Arg Ala Gln Ala Asp Ala Ala Arg Gln Ala Leu Ala Gln Asn
 50 55 60
 Glu Gln Val Tyr Asn Glu Leu Ser Gln Arg Ala Gln Arg Leu Gln Ala
 65 70 75 80
 Glu Ala Asn Thr Arg Phe Tyr Lys Ser Gln Tyr Gln Asp Leu Ala Ser
 85 90 95
 Lys Tyr Glu Asp Ala Leu Lys Lys Leu Glu Ser Glu Met Glu Gln Gln
 100 105 110
 Lys Ala Ile Ile Ser Asp Phe Glu Lys Ile Gln Ala Leu Arg Ala Gly
 115 120 125
 Asn

<210> 14
 <211> 390
 <212> DNA
 <213> *Fusobacterium nucleatum*

<400> 14
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 gatgcagcaa gtttagtagg tgaattacaa gcattagatg ctgaatacca aaacttagca 120
 aatcaagaag aagcaagatt caatgaagaa agagcacaag ctgacgctgc tagacaagca 180
 ctagcacaaa atgaacaagt ttacaatgaa ttatctcaaa gagctcaaag acttcaagct 240
 gaagctaaca caagatttta taaatctcaa taccaagatc tagcttctaa atatgaagac 300
 gcttttaaga aattagaatc tgaaatggaa caacaaaaag ctattatttc tgattttgaa 360
 aaaattcaag cttaagagc tggtaactaa 390

<210> 15
 <211> 67
 <212> PRT
 <213> *Homo sapiens*

<400> 15
 Met Arg Ile His Tyr Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val
 1 5 10 15
 Pro Val Pro Gly His Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr
 20 25 30
 Cys Arg Val Arg Gly Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys
 35 40 45

Glu Glu Gln Ile Gly Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg
 50 55 60
 Arg Lys Lys
 65

<210> 16
 <211> 204
 <212> DNA
 <213> Homo sapiens

<400> 16
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 catggaggaa tcataaacac attacagaaa tattattgca gagtcagagg cggccggtgt 120
 gctgtgctca gctgccttcc aaaggaggaa cagatcggca agtgctcgac gcgtggccga 180
 aaatgctgcc gaagaaagaa ataa 204

<210> 17
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 17
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 tgctcttcct gtttttggtg cctgtcccag gtcatggagg aatcataaac acattacaga 120
 aatattattg cagagtcaga ggcggccggt gtgctgtgct cagctgcctt ccaaaggagg 180
 aacagatcgg caagtgctcg acgcgtggcc gaaaatgctg ccgaagaaag aaataaaaac 240
 cctgaaacat gacgagagtg ttgtaaagtg tggaaatgcc ttcttaaagt ttataaaaagt 300
 aaaatcaaat tacatttttt tttcaaaaaa aaaaaaa 337

<210> 18
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 18
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 agaaatatta ttgcagagtc agaggcggcc ggtgtgctgt gctcagctgc cttccaaagg 180
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 aaccctgaaa catgacgaga gtgttg 266

<210> 19
 <211> 82
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> 81
 <223> Xaa = Any Amino Acid

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 20 25 30
 Val Thr Tyr Asn Asp Thr Ile Lys Gly Glu Ile Lys Asn Cys Ser Phe
 35 40 45

Asn Thr Thr Thr Glu Ile Arg Asp Lys Lys Gln Thr Ala Tyr Ala Leu
 50 55 60
 Phe Tyr Lys Leu Asp Ile Val Pro Leu Asn Asp Gly Asn Asn Asn Asn
 65 70 75 80
 Xaa Tyr

<210> 20
 <211> 64
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> 21,23,36
 <223> Xaa = Any Amino Acid

<400> 20
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 20 25 30
 Phe Asn Ile Xaa Asn Ser Ser Ser Asn Ile Thr Thr Tyr Pro Ile Asn
 35 40 45
 Asn Thr Thr Asn Gln His Ser Leu Phe Tyr Asn Leu His Val Leu Pro
 50 55 60

<210> 21
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 21
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 1 5 10 15
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 20 25 30
 Ala Thr Val Ala Ser Asn Asp Thr Ile Asn Arg Glu Val Lys Asn Cys
 35 40 45
 Ser Phe Asn Ile Thr Thr Asp Leu Arg Asp Lys Arg Lys His Glu Tyr
 50 55 60
 Ala Leu Phe Tyr Thr Leu Asp Ile Val Pro Leu Asn Glu Lys Lys Asn
 65 70 75 80
 Asn Ala Ser Glu Tyr Arg Leu Ile Ser Cys Asn Thr Ser Ala Val Thr
 85 90 95
 Gln Ala Cys Pro Lys
 100